Conference Program

Advances in Materials Science

August 31 to September 4, 2009

Radisson SAS Alcron Hotel
Prague, Czech Republic

http://www.sandia.gov/NNSA/russia/conference.html

Sunday, August 30

5:00 to 7:00 P.M.
Welcome Reception and Registration

Monday, August 31

7:00 P.M.
Business Dinner at the Bellevue Restaurant

Walking directions to the Bellevue Restaurant, Smetanovo nabr.18
from the Radisson SAS Alcron Hotel

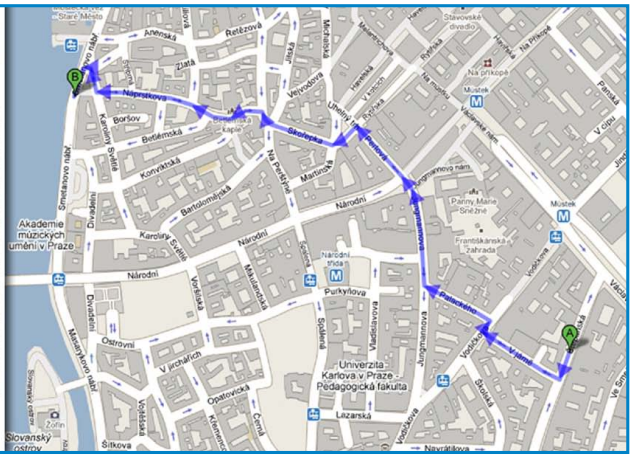
Suggested route

Štěpánská — **15 mins**
1.3 km

A Štěpánská 624/40
110 00 Prague 1-Nové Město, Czech Republic

1. Head **south** on **Štěpánská** toward **V jámě**	52 m
2. Turn **right** at **V jámě**	0.2 km
3. Turn **right** at **Vodičkova**	24 m
4. Turn **left** at **Palackého**	0.1 km
5. Turn **right** at **Jungmannova**	0.2 km
6. Slight **left** at **Jungmannovo nám.**	28 m
7. Continue on **Perlová**	0.1 km
8. Turn **left** at **Uhelný trh**	56 m
9. Turn **right** at **Skořepka**	0.1 km
10. Turn **left** at **Betlémské nám.**	62 m
11. Slight **right** toward **Náprstkova**	78 m
12. Continue straight onto **Náprstkova**	0.2 km
13. Turn **right** at **Karoliny Světlé**	45 m
14. Turn **left** at **Na zábradlí**	15 m
15. Turn **left** at **Smetanovo nábř.**	54 m

B Smetanovo nábřeží 329/18
110 00 Prague 1-Staré Město, Czech Republic



MONDAY AUGUST 31

8:15 to 9:00 a.m.	**Welcome and Opening Remarks: Sandia National Laboratories, U. S. National Nuclear Security Administration, Russia Representatives**

Session 1, Aging of Materials Session Chair, Brandon Chung, Lawrence Livermore National Laboratory, Livermore, California, USA			
Time	**Presentation Title**	**Authors**	**Institution**
9:00 to 9:25 a.m.	Modeling of Plutonium Aging	V. Dremov, A. Karavaev, F. Sapozhnikov, M. Vorobyova, G. Ionov, V. Anisimov, M. Korotin, A. Shorikov, M. Zocher, D. Preston	All Russian Institute of Technical Physics (VNIITF), Snezhinsk, Russia
9:25 to 9:50 a.m.	Spectroscopic Signature of Aging in δ-Pu(Ga)	J. Tobin, S.-W. Yu, B.W. Chung	Lawrence Livermore National Laboratory, Livermore, CA, USA
9:50 to 10:15 a.m.	Modeling the Aging and Reliability of Solder Joints	E.A. Holm, M.K. Neilsen, P.T. Vianco, A. C. Kilgo	Sandia National Laboratories, Albuquerque, NM, USA
BREAK 10:15 to 10:35			
10:35 to 11:00 a.m.	Polymer Material Thermal Decomposition Model with Intensive Decomposition Area	V.S. Sirenko, E.A. Egorova	All Russian Research Institute of Automatics (VNIIA) Moscow, Russia
11:00 to 11:25 a.m.	Experimental Characterization of Foams in Fire Environments	K.L. Erickson, R.E. Hogan, K.J. Dowding, V.F. Nicolette	Sandia National Laboratories, Albuquerque, NM, USA
11:25 to 11:50 a.m.	Numerical Modeling of Heat Transfer in Foams in Fire Environments	R.E. Hogan, K.L. Erickson, V.F. Nicolette, K.J. Dowding	Sandia National Laboratories, Albuquerque, NM, USA
11:50 to 12:15	Study of Mineral Oil Aging Related to Design Materials of the Neutron Generator	A.S. Sokovishin, G.N. Prokop'eva	All Russian Research Institute of Automatics (VNIIA) Moscow, Russia
Lunch (provided to all conference attendees) 12:15- 1:30			

MONDAY, AUGUST 31

Session 2, Computational Methods and Radiation Effects Session Chair, A. V. Mirmelstein, All Russia Institute of Technical Physics, (VNIITF)			
Time	**Presentation Title**	**Authors**	**Institution**
1:30 to 1:55 p.m.	Opening remarks: General Survey of JIHT RAS Approach and Results	G.E. Norman	Joint Institute of High Temperatures, (JIHT), Moscow, Russia
1:55 2:20 p.m.	Accurate Prediction of Dynamic Fracture with Peridynamics	J.B. Aidun, S.A. Silling	Sandia National Laboratories, Albuquerque, NM, USA
2:20 to 2:45 p.m.	Molecular Dynamic Simulation of Thermodynamic and Mechanical Properties and Behavior of Materials at High Strain Rate	V. V. Dremov, A. Karavaev, F. Sapozhnikov, M. Vorobyova, L. Soulard	All Russian Institute of Technical Physics (VNIITF), Snezhinsk, Russia
2:45 to 3:10 p.m.	Challenges of, and Variations on, Coupled Atomistic-Continuum Simulation	J.A. Zimmerman	Sandia National Laboratories, Albuquerque, NM, USA
BREAK 3:10 to 3:30			
3:30 to 3:55 p.m.	Electrical Effects of Ionizing Radiation on Insulating Materials	H.P. Hjalmarson, K.E. Kambour, R.J. Magyar	Sandia National Laboratories, Albuquerque, NM, USA
3:55 to 4:20 p.m.	Strongly Coupled Plasma Nanochannel Created by a Fast Single Ion in Condensed Matter	A.V. Lankin, I.V. Morozov, G.E. Norman, S.A. Pikuz Jr., I. Yu. Skobelev	Joint Institute of High Temperatures, (JIHT), Moscow, Russia
4:20 to 4:45 p.m.	Moleular Dynamics Simulations of Displacement Cascades in GaAs	S. M. Foiles	Sandia National Laboratories, Albuquerque, NM, USA

7:00 p.m. BUSINESS DINNER AT THE BELLEVUE RESTAURANT

TUESDAY, SEPTEMBER 1

Session 3: Materials Properties and Failure Session Chair, Dr. Genri Norman, Joint Institute of High Temperatures, Moscow, Russia			
Time	**Presentation Title**	**Authors**	**Institution**
8:30 to 8:55 a.m.	Modeling Coupled Interaction Between Crack Growth, Diffusion and Chemical Reaction	E. Vilchevskaya, A. Freidin	Institute of Problems in Mechanical Engineering, (IPME), St. Petersburg, Russia
8:55 to 9:20 a.m.	Influence of Defects Type and Chemical Reaction on Fracture Initiation, Molecular Dynamics Study	A. M. Krivtsov	Institute of Problems in Mechanical Engineering, (IPME), St. Petersburg, Russia
9:20 to 9:45 a.m.	The Determination of the Small Hydrogen Traps as Nucleus of Fatigue and Destruction	V.A. Polyanskiy, A.M. Polyansky, A.K. Belyaev, Yu.A. Yakovlev	Institute of Problems in Mechanical Engineering, (IPME), St. Petersburg, Russia
9:45 to 10:10 a.m.	First Principles Study of Site Occupation and Migration of Helium in Beta-Phase Erbium Hydride	C.S. Snow, R.R. Wixom, P.A. Schultz	Sandia National Laboratories, Albuquerque, NM, USA
10:10 to 10:35 a.m.	Theoretical Model for the Hydrogen-Material Interaction as a Basis for Prediction of the Material Mechanical Properties	D.A. Indeitsev, V.A. Polyanskiy, A.K. Belyaev, A.A. Sukhanov	Institute of Problems in Mechanical Engineering, (IPME), St. Petersburg, Russia
BREAK 10:35 to 10:55			
10:55 to 11:20 a.m.	Properties Research of Chemically Deposited Nickel Coatings Modified with Nano Diamonds	S.A. Fedotov, I.P. Ryabchikova, N.S. Fedotova	All Russian Research Institute of Automatics (VNIIA) Moscow, Russia
11:20 to 11:45 a.m.	Evolving Metallurgical Behaviors In Plutonium From Self-Irradiation	B.W. Chung, K.E. Lema, D.S. Hiromoto	Lawrence Livermore National Laboratory, Livermore, CA, USA
11:45 to 12:10 p.m.	Isochronal Annealing of Radiation Damage in α- and δ-Pu Alloys	S.K. McCall, M.J. Fluss, B.W. Chung, R.G. Haire	Lawrence Livermore National Laboratory, Livermore, CA, USA
12:10 to 12:35 p.m.	Spiked Alloy Production for Accelerated Aging of Plutonium	P. Wilk	Lawrence Livermore National Laboratory, Livermore, CA, USA
LUNCH (provided to all conference attendees) 12:35 to 1:30			

TUESDAY, SEPTEMBER 1

Session 4: Deformation and Computational Methods Session Chair: J. Aidun, Sandia National Laboratories, Albuquerque, New Mexico, USA			
Time	**Presentation Title**	**Authors**	**Institution**
1:30 to 1:55 p.m.	Structural Changes in Metals During High-Rate Deformation	A.M. Podurets, V.A. Raevsky, M.I. Tkachenko, A.N. Baladina, I.N. Kondrokhina, O.N. Ignatova, A.I. Lebedev, V.G. Khanzhin, J. Petit, M.A. Zocher	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
1:55 to 2:20 p.m.	Spall and Shear Fractures in the Spherically Converging Shells of Iron and Steels: Measurements of Energy and Residual Strain	E.A. Kozlov, S.A. Brichikov, V.G. Vildanov, D.M. Gorbachev, D.T. Yusupov	All Russian Institute of Technical Physics (VNIITF), Snezhinsk, Russia
2:20 to 2:45 p.m.	DFT Studies of Electronic Excitation Effects: Crystal Lattice Stability, Non-Adiabatic Transitions	V.V. Stegailov	Joint Institute of High Temperatures, (JIHT), Moscow, Russia
2:45 to 3:10 p.m.	Study of the Volume-Collapse Phase Transitions in F-Electron Materials	A.V. Mirmelstein, E.S. Clementyev, O.V. Kerbel	All Russian Institute of Technical Physics (VNIITF), Snezhinsk, Russia
BREAK 3:10 to 3:30			
3:30 to 3:55 p.m.	Method of Cluster Dynamics for Simulation of Dynamic Processes of Continuum Mechanics	I.A. Davydov, V.N. Piskunov	AAll Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
3:55 to 4:20 p.m.	Density and Nonideality Effects in Plasmas	A.V. Lankin, G.E. Norman	Joint Institute of High Temperatures, (JIHT), Moscow, Russia
4:20 to 4:45 p.m.	Self-Diffusion in Mo Using the AM05 Density Functional	T.R. Mattson, N. Sandberg, R. Armiento, A.E. Mattson	Sandia National Laboratories, Albuquerque, NM, USA
4:45 to 5:10 p.m.	Thermo-Mechanical Effects in Perfect Crystals with Arbitrary Multibody Potentials	V.A. Kuzkin, A.M. Krivstov	Institute of Problems in Mechanical Engineering, (IPME), St. Petersburg, Russia

WEDNESDAY, SEPTEMBER 2

Session 5: Materials Response to Dynamic Loading I Session Chair: O.N. Ignatova, All-Russian Scientific Research Institute of Experimental Physics (VNIIEF)			
Time	**Presentation Title**	**Authors**	**Institution**
8:30 to 8:55 a.m.	A Wide-range Equation of State of Water	V.V. Dremov, A.T. Sapozhnikov, M.A. Smirnova, E.E. Mironova	All Russian Institute of Technical Physics (VNIITF), Snezhinsk, Russia
8:55 to 9:20 a.m.	On the Universal Behavior of Some Organic Compounds Under Compression	B.A. Nadykto	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
9:20 to 9:45 a.m.	Shock Induced Plasticity in Al, Cu and Al-Cu Alloys	A.V. Yanilkin, A. Yu. Kuksin, G.E. Norman, V.V. Stegailov	Joint Institute of High Temperatures, Moscow, Russia
9:45 to 10: 10 a.m.	Wide-range High-Strain-Rate Shear Strength Model for Metals	S.S. Nadyozhin, O.N. Ignatova, V.A. Rayevsky, V.P. Soloviev	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
BREAK 10:10 to 10:30			
10:30 to 10: 55 a.m.	Static Material Strength Determined Using a DAC	H. Cynn, W.J. Evans, J.P. Klepeis, M.J. Lipp, P. Liermann, W. Yang	Lawrence Livermore National Laboratory, Livermore, CA, USA
10:55 to 11:20 a.m.	Measurement of Sound Velocities in Shock-Compressed Tin Under Pressures up to 150 Gpa	M.V. Zhernokletov, A.E. Kovalev, V.V. Komissarov, M.A. Zocher, F.J. Cherne	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
11:20 to 11:45 a.m.	Determination of Longitudinal And Bulk Sound Velocities In Natural Uranium Under Shock-Wave Loading	A.V. Fedorov, A.L. Mikhaylov, S.A. Finyushin, D.V. Nazarov, T.A. Govorunova, D.A. Kalashnikov, E.A. Mikhaylov, V.N. Knyazev	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
11:45 to 12:10 p.m.	Calculation of Sound Speed Behind the Shock Wave Front for Various Materials And Comparisons with Experimental Data	B.A. Nadykto	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
LUNCH (provided to all conference attendees) 12:10 to 1:00			

THURSDAY, SEPTEMBER 3

Session 6: Materials Response to Dynamic Loading II Session Chair: A. K. Belyaev, Institute of Problems in Mechanical Engineering (IPME)			
8:30 to 8:55 a.m.	Models of Fracture From Atomistic Simulations	A. Yu. Kuksin, G.E. Norman, V.V. Pisarev, V.V. Stegailov, A.V. Yanilkin	Joint Institute of High Temperatures, (JIHT), Moscow, Russia
8:55 to 9:20 a.m.	Modeling the Interconnections Between a Structural Transformation Front and a Growing Crack	A.B. Freidin	Institute of Problems in Mechanical Engineering (IPME)
9:20 to 9:45 a.m.	FEM Simulation of Fatigue Damage, Crack Nucleation and Growth in a Pre-Damaged Material	I.K. Korolev, S.V. Petinov, A.B. Freidin	Institute of Problems in Mechanical Engineering, (IPME), St. Petersburg, Russia
9:45 to 10:10 a.m.	Solid-State Rayleigh-Taylor Experiments in Vanadium at Mbar Pressures at the Omega Laser	B.A. Remington, H. S. Park, K.T. Lorenz, R. M. Cavallo, S.M. Pollaine, S. T. Prisbrev, R.E. Rudd, R. C. Becker, J. V. Bernier	Lawrence Livermore National Laboratory, Livermore, CA, USA
10:10 to 10:35 a.m.	Dynamic Strength Experiments	R.M. Cavallo	Lawrence Livermore National Laboratory, Livermore, CA, USA
Break 10:35 to 10:55			
10:55 to 11:20 a.m.	Influence of Dynamic Properties on Perturbation Growth in Tantalum	V. V. Igonin, O.N. Ignatova, A.I. Lebedev, S.S. Nadezhin, A.M. Podurez, B.A. Raevsky, V.P. Solov'ev, M.A. Zocher, D. Preston	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
11:20 to 11:45 a.m.	Deviatoric Constitutive Model: Domain of Strain Rate Validity	M.A. Zocher, V.A. Raevsky, O.N. Ignatova	Los Alamos National Laboratory, Los Alamos, NM, USA
11:45 a.m. to 12:10 p.m.	Modeling and Simulation of Thermo-Acousto-Elastic Waves in Solids of Complex Rheology	D.A. Indeitsev, V.N. Naumov, B.N. Semenov, M.D. Sterlin	Institute of Problems in Mechanical Engineering, (IPME), St. Petersburg, Russia
12:10 to 12:35 p.m.	Accurate Direct Eulerian Simulation of Dynamic Elastic-Plastic Flow	J.R. Kamm, J.W. Walter	Los Alamos National Laboratory, Los Alamos, NM, USA
LUNCH (provided to all conference attendees) 12:35 to 1:30			

THURSDAY, SEPTEMBER 3

Session 7: Materials Response to Dynamic Loading III Session Chair: M. A. Zocher, Los Alamos National Laboratory (LANL)			
Time	**Presentation Title**	**Authors**	**Institution**
1:30 to 1:55 p.m.	Simulation of Ce Response to Dynamic Loading	A. Petrovtsev, A. Bychenkov, V. Dremov, V. Elkin, G. Kovalenko, D. Shalkovsky, N. Sokolova, D Varfolomeev	All Russian Institute of Technical Physics (VNIITF), Snezhinsk, Russia
1:55 to 2:20 p.m.	Predictions from the Equation of State of Cerium Yield Interesting Insights into Experimental Results	F.J. Cherne, B.J. Jensen, P.A. Rigg, V.M. Elkin	Los Alamos National Laboratory, Los Alamos, NM, USA
2:20 to 2:45 p.m.	Features of Cerium Compressibility and Spall Strength in the (Gamma-Alpha) Phase-Transformation Region Under Explosive Loading	V.I. Tarzhanov, et al.	All Russian Institute of Technical Physics (VNIITF), Snezhinsk, Russia
2:45 to 3:10 p.m.	Study of Phase Transitions in Cerium and Titanium by PVDF Gauge	V.A. Borisenok, V.G. Simakov, M.V. Zhernokletov, M.A. Zocher, F.J. Cherne	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
Break 3:10 to 3:30			
3:30 to 3:55 p.m.	Atomistic Modelling of Microstructure Influence on the Spall Strength	P.A. Zhilyaev, A. Yu. Kuskin, G.E. Norman, V.V. Stegailov, A.V. Yanilkin	Joint Institute of High Temperatures, Moscow, Russia
3:55 to 4:20 p.m.	Effect of Shock Wave and Quasi-Isentropic Loading on the Shear and Spalling Strength of Metals with Natural and Microcrystalline Structure	O.N. Ignatova, I.I. Kaganova, A.B. Kal'manov, A.N. Malyshev, V.I. Skokov, A.M. Podurez, B.A. Raevsky, O.A. Tyupanova, G.A. Salishev, C.V. Razoryonov, M.A. Zocher	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
4:20 to 4:45 p.m.	Spall Fracture and Compaction in Natural Uranium Under Shock-Wave Loading	O.A. Tyupanova, S.S. Nadezhin, A.N. Malyshev, O.N. Ignatova, V.I. Skokov, V.N. Knyazev, V.A. Raevsky, N.A. Yukina	All Russian Scientific Research Institute of Experimental Physics (VNIIEF), Sarov, Russia
4:45 to 5:15 Concluding Remarks: NNSA, Sandia, Russia Representatives			

FRIDAY SEPTEMBER 4

9:00 to 12:00 Laboratory and Institute Points of Contact meeting. Agenda to be distributed separately.
12:00 to 1:30 (Lunch provided to U.S./Russian POCs, heads of delegations, and NNSA)
1:30 to 4:00 Laboratory and Institute Points of Contact meeting conclusion

Meeting Attendees and Affiliations

RUSSIAN ATTENDEES

Davydov, I.A.	VNIIEF	Theorist in nanomaterials group
Ignatova, O.N.	VNIIEF	Specialist in dynamic strength of materials
Kovalev ,A. E.	VNIIEF	Physicist working on high temperature shock-induced transitions
Nadykto, B. A	VNIIEF	Principal Scientist in theoretical Equation-of-state group
Nadyozhin, S.S	VNIIEF	Theorist working on material strength
Poduretz, A.M	VNIIEF	Head of metallography and metallophysics group
Safronov, S. E.	VNIIEF	Export Control Specialist
Shapovalova, O.	VNIIEF	Interpreter
Solovyev, V.P.	VNIIEF	First Deputy of RFNC-VNIIEF Director
Raevsky, V.A	VNIIEF	Deputy Director of Gasodynamic Institute
Tupanova, O.	VNIIEF	Specialist working on detonation physics
Vorontsova, O.S.	VNIIEF	Deputy of the Center for International Relations
Zhernokletov, M.V.	VNIIEF	Head of department for experimental high density physics
Avramenko, M.	VNIITF	Deputy Head of Computational Mathematics Division
Dremov,V. V.	VNIITF	Senior Scientist working on molecular-dynamics modeling of material properties
Mirmelstein , A.V.	VNIITF	Senior Scientist studying actinide properties
Petrovtsev, A. V.	VNIITF	Head of Department working on theoretical models of material properties
Talantova, L.	VNIITF	Head of Department for International Relations and Scientific Cooperation
Tarzhanov, V. I	VNIITF	Senior Scientist running gas dynamics experiments to investigate material properties
Fedotov, S.	VNIIA	Post-graduate, Head of Research Laboratory, materials science (coatings, paints, magnetic materials)
Sirenko, V.	VNIIA	Candidate of science, Head of Research Laboratory, climatic tests, modeling of abnormal situations
Sokovishin, A.	VNIIA	Candidate of science, Deputy Chief Designer, material science and technologies, R&D long term and short term planning; Deputy International Projects Coordinator
Sviridov, A.	VNIIA	Candidate of science, Deputy Chief Designer, radiation effects in materials, MPC&A, general technical issues; International Projects Coordinator

RUSSIAN ATTENDEES (continued)

Kuksin, A.	JIHT	Researcher; physicist-theorist working on fracture and plasticity under dynamic loading
Norman, G.	JIHT	Department Head; theory and atomistic modeling & simulation of condensed matter and dense plasmas
Stegailov, V.	JIHT	Head of laboratory focused on theory and atomistic modeling & simulation of condensed matter at extreme conditions
Yanilkin, A.	JIHT	Researcher; physicist-theorist working on plasticity and fracture under dynamic loading
Zhilyaev, P.	JIHT	Junior researcher working on atomistic modeling & simulation of dislocations
Belyaev, A.	IPME	Deputy Director; Professor
Friedin, A.	IPME	Head of Laboratory of Math; methods in mechanics of materials
Indeitsev, D.	IPME	Director; Research Institute of Problems in Mechanical Engineering
Korolev, I.	IPME	Ph.D student
Krivtsov, A. M.	IPME	Head of Laboratory for Discrete Models in Mechanics
Kuzkin V.	IPME	Ph.D student
Polyansky,V. A.	IPME	Professor of Mechanics; St. Petersburg State Polytechnic University
Vilchevskaya, E.	IPME	Senior Researcher; Laboratory of Mathematical Methods in Mechanics of Materials

US ATTENDEES

Aidun, J.	SNL	Manager; Accurate Prediction of Dynamic Fracture with Peridynamics
Arzigian, J.	SNL	Physicist; International collaborations/science and technology
Bickel, T.	SNL	Principal Program Director; Nuclear Weapons Science & Technology Programs; Chemical Engineer
Erickson, K.	SNL	Chemical Engineer; thermal decomposition of organic materials
Foiles, S.	SNL	Physicist; Molecular Dynamics simulations of materials properties, technical conference organizer
Garber, R	SNL	ASC Program Communications Director & ASC Russia Program Project lead; English
Hajalmarson, H.	SNL	Technical Staff
Hogan, R.	SNL	Mechanical Engineer; systems thermal modeling and simulation
Holm, E.	SNL	Distinguished Member of Technical staff; Mesoscale modeling of microstructure evolution; technical conference organizer
Humble, L.	SNL	Protocol Officer; Conference coordination
Jones, R.	SNL	Mechanical Engineer; computation mechanics
Maenchen, J.	SNL	Manager NW S&T Program Strategic Directions; Conference POC
Mattsson, T.	SNL	Physicist; first-principles simulations in materials science and high-energy density physics.

US ATTENDEES (continued)

Sheglova-M^{c}Mahan,L.	SNL	Interpreter
Snow, C.	SNL	Scientist; condensed matter physics and radiaition damage in materials
Zimmerman, J.	SNL	Scientist; atomistic simulation and multi-scale methods
Cherne, F.	LANL	Technical staff; Predictions from the equation of state of cerium yield interesting insights into experimental results
Gerdova, E.	LANL/ VNIIEF	Interpreter
Kamm, J.	LANL	Project leader; Applied Mathematics
Reinovsky, R.	LANL	Program Manager of Science Campaign #1 and for US/Russian S&T Program; Pulsed Power for Shock Physics
Zocher, M.	LANL	Technical Staff; Computational mechanics; Deviatoric Constitutive Model: Domain of Strain Rate Validity
Cavallo, R.	LLNL	Physicist; dynamic strength experiments
Chung, B.	LLNL	Associate Program Leader in nuclear materials program focused on metallurgy and analytical chemistry
Cynn, H.	LLNL	Physicist; sure diamond anvil cell work using x-ray diffraction to determine EOS of various materials, Static material strength determined using a DAC
McCall, S.	LLNL	Physicist; physical properties of actinides, including magnetism, low temperatures, and highly correlated electron systems
Remington, B.	LLNL	Physicist; solid-state material dynamics at ultrahigh pressures and strain rates, driven on high power lasers
Schilling. O.	LLNL	Physicist; turbulence modeling, high energy density physics; Russia Program lead
Tobin. J.	LLNL	Lead PI of the DOE Office of Basic Energy Science Project: Investigations of Electron Correlation in Complex Systems; International meeting on Actinides and Pu The Spectroscopic Signature of Aging in delta-Pu (Ga) organizer.
Wilk, P.	LLNL	Radiochemist with the plutonium chemical processing group
Kusnezov, D.	NNSA	Head of delegation/ NNSA Director of the Office of Research & Development for National Security Science & Technology; Physicist
Lewis, E.	NNSA	Administrative support to NNSA-10
McDaniel, D.	Sandia/ NNSA	Senior Scientist assigned to NNSA Science and Technology collaborations

NOTES

Statue of St. Wenceslas riding an inverted horse. It is located in the entrance to the Lucerna theater on the southeast side of Wenceslas Square. Sculpture by David Cerný in 1992, executed in foam, but made to resemble patinated bronze.

NOTES

Oldest sculpture on Charles Bridge. St. John of Nepomuk. Born as John Wolfin, he was canonized in 1729 as patron saint of discretion, floods and slander.

NOTES

This interesting bronze statue by sculptor Jaroslav Rona is based on a vivid description that appears in Franz Kafka's early short story "Description of a Struggle." Kafka wrote of a young man riding on another man's shoulders through the streets of Prague. In Rona's work, that figure is Kafka himself sitting astride a headless man.